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30449 7590 11/12/2008 SCHMEISER, OLSEN & WATTS 22 CENTURY HILL DRIVE SUITE 302 LATHAM, NY 12110			EXAMINER KANG, INSUN	
			ART UNIT 2193	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/870,223	GALLI, DOREEN LYNN	
	<b>Examiner</b>	<b>Art Unit</b>	
	INSUN KANG	2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 July 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 9, 14, 15, 17-20 and 22-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 9, 14, 15, 17-20 and 22-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. This action is in response to the amendment filed on 7/28/2008.
2. Claims 9, 14, 15, 17-20 and 22-25 are pending in the application.

#### ***Claim Rejections - 35 USC § 101***

3. Applicant's arguments filed on 7/28/2008 with respect to claims 14, 15, 17, and 22-25 have been fully considered and are persuasive. Therefore, the rejection of 14, 15, 17, and 22-25 has been withdrawn.

#### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 9 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Osder et al. (US Patent 5,493,606) hereinafter referred to as "Osder."

Per claim 9:

Osder discloses: a method for selecting a voice prompt ...the method comprising the steps of:

- receiving commands from a telephone caller (i.e. "VMMM 32 assigns NAP Message IDs to received and recorded voice messages and via AIM 30 returns these voice Message IDs to the application involved in the telephone call," col. 8 lines 1-7);

Art Unit: 2193

responsive to said received commands, determining that the voice prompt is needed (i.e. “When a Network Application 10 requires that a prompt to be played,” col. 7 lines 41-42);

- responsive to said determining that voice prompt is needed, providing a variable identified with a function of the voice prompt (i.e. the SPIN application table 1 in Fig 3 assigns the values of the Ids (variable) such as UV10AE etc to point to the prompt element sets such as the tables 2-5 containing the pre-recorded prompts in SPINDB )
- assigning a first value to the variable by accessing an assignment table that is held outside the compiled code of the application program (i.e. A SPIN Application table 1 in Fig 3 lists the SPIN applications 1 to N with SPIN application Ids (identifiers) for American English, Spanish, Dutch, etc (Osder, see Fig 3). For example, the ID, “UV10AE,” in column 1 identifies American English. These SPIN application IDs designate “a set of prompts and their related entities in the SPIN database and in the Voice File,” Osder, col. 28 lines 30-32; The tables in SPIN database are held outside of the Network Application and therefore, the meta-language variables to the tables are read from outside of the Network Application, Osder, col. 3 lines 48-51; col. 27 lines 27-41)
- identifying a first database record that includes a digitally encoded voice prompt consisting of the first sequence of bits wherein the bits of the first sequence of bits are stored contiguously in the identified first database record, and consisting of a first bit pattern that consists of a first contiguous sequence of bits wherein said identifying the first database record is implemented through use of the first value which selects the first database record and specifies the first bit pattern; reading the identified first database record (i.e. the ID, “UV10AE,” in column 1 identifies American English in Fig 3. These

Art Unit: 2193

SPIN application IDs designate “a set of prompts and their related entities in the SPIN database and in the Voice File (Osder, col. 28 lines 30-32).” The SPIN application ID, “UV10AE” “provides a unique identifier that represents both the set of prompts that a Network Application can play and a specific language,” Osder, col. 28 lines 32-37; The NAP Message Ids corresponding to the recorded voice elements are stored in a SPIN Data Base (SPINDB),” col. 3 lines 48-60; “The Message ID fields are generally utilized to speak user recorded information such as the user's recorded name or personal greeting,” col. 12 lines 59-61; “Every static and dynamic element of a SPIN application is recorded in table 80,” col. 10 lines 6-10)

- performing a first process that generates a first complete message from the identified first database record and speaks the generated first complete message to the telephone caller, said performing the first process consisting of the steps of:

passing the first bit pattern from the first database record that had been read to an audio apparatus (i.e. “The voice for the elements can be recorded through NAP and stored in the NAP voice file,” col. 3 lines 48-61; “The Network Application issues a PEP command to send a prompt,” col. 4 lines 5-25; col. 6 lines 11-31)

- performing, by the audio apparatus, a digital-to-analog conversion of the first bit pattern that had been passed to the audio apparatus (i.e. The NAP is a digital platform storing the voice prompts in SPINDB as a digital format and converting them to speech when the Network application invokes playing of the prompts (col. 5 lines 42-56)

- speaking, by the audio apparatus, the first complete message to a telephone caller, said first complete message consisting of the digital-to-analog converted first bit pattern (i.e. “you have five new messages,” col. 5 lines 42-56).

Per claim 18:

Osder further discloses:

- assigning a second value to the variable by accessing the assignment table, wherein the second value of the variable differs from the first value of the variable (i.e. A SPIN Application table 1 in Fig 3 lists the SPIN applications 1 to N with SPIN application Ids (identifiers) for American English, Spanish, Dutch, etc (Osder, see Fig 3). For example, the ID, "UV10AE," in column 1 identifies American English. These SPIN application IDs designate "a set of prompts and their related entities in the SPIN database and in the Voice File," Osder, col. 28 lines 30-32; The tables in SPIN database are held outside of the Network Application and therefore, the meta-language variables to the tables are read from outside of the Network Application, Osder, col. 3 lines 48-51; col. 27 lines 27-41)
- replacing the first value of the variable in the assignment table with the assigned second value of the variable (i.e. col. 3 lines 64- col. 4 lines 1-5).
- identifying a second database record that includes a digitally encoded voice prompt consisting of a second bit pattern that consists of a second sequence of bits wherein the bits of the first sequence of bits are stored contiguously in the identified first database record (i.e. "The Message ID fields are generally utilized to speak user recorded information such as the user's recorded name or personal greeting," col. 12 lines 59-61; "Every static and dynamic element of a SPIN application is recorded in table 80," col. 10 lines 6-10)

Art Unit: 2193

- wherein the second bit pattern differs from the first bit pattern, and wherein said identifying the second database record is implemented through use of the second value which selects the second database record and specifies the second bit pattern (i.e. the ID, “UV10AE,” in column 1 identifies American English in Fig 3. These SPIN application IDs designate “a set of prompts and their related entities in the SPIN database and in the Voice File (Osder, col. 28 lines 30-32);
- performing a second process that generates a second complete message from the identified second database record and speaks the generated second complete message to the telephone caller, said performing the second process consisting of the steps of: reading the second database record (“The SPIN application ID, “UV10AE” “provides a unique identifier that represents both the set of prompts that a Network Application can play and a specific language,” Osder, col. 28 lines 32-37; The NAP Message Ids corresponding to the recorded voice elements are stored in a SPIN Data Base (SPINDB),” col. 3 lines 48-60)
- passing the second bit pattern from the second database record that had been read to the audio apparatus (“The voice for the elements can be recorded through NAP and stored in the NAP voice file,” col. 3 lines 48-61; “The Network Application issues a PEP command to send a prompt,” col. 4 lines 5-25; col. 6 lines 11-31)
- performing, by the audio apparatus, a digital-to-analog conversion of the second bit pattern that had been passed to the audio apparatus (i.e. The NAP is a digital platform storing the voice prompts in SPINDB as a digital format and converting them to speech when the Network application invokes playing of the prompts (col. 5 lines 42-56)

Art Unit: 2193

- speaking, by the audio apparatus, a second message to a telephone caller, said second message consisting of the digital-to-analog converted second bit pattern (i.e. "you have five new messages," col. 5 lines 42-56).

Per claim 19:

Osder further discloses: wherein said assigning the second value and said replacing the first value with the second value are performed by an interactive voice response (IVR) system administrator (i.e. col. 3 lines 64- col. 4 lines 1-5).

Per claim 20:

Osder further discloses: wherein said replacing the first value with the second value by the IVR system administrator does not comprises using special IVR programming skill to replace the first value with the second value (i.e. col. 3 lines 64- col. 4 lines 1-5, 33-37).

### ***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.



Art Unit: 2193

7. Claims 14, 15, 17, and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osder et al. (US Patent 5,493,606) hereinafter referred to as “Osder.”

Per claim 14:

Osder does not explicitly teach pertaining to the first bit pattern in the first database record consists of music wherein said speaking the first complete message comprises speaking the first complete message consisting of the digital-to-analog converted first bit pattern as said music. However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include music voice prompts as callers may have different preferences and purposes. The modification would be obvious because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different preferences.

Per claim 15:

Osder does not explicitly teach pertaining to the first bit pattern in the first database record consists of audio tone wherein said speaking the first complete message comprises speaking the first complete message consisting of the digital-to-analog converted first bit pattern as said audio tone. However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include audio tone of voice prompts as callers may have different preferences and purposes. The modification would be obvious because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different preferences.

Art Unit: 2193

Per claim 17:

Osder does not explicitly teach pertaining to the first bit pattern in the first database record consists of a sequence of beeps wherein said speaking the first complete message comprises speaking the first complete message consisting of the digital-to-analog converted first bit pattern as said a sequence of beeps. However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include various voice prompts such as including beeps as callers may have different preferences and purposes. The modification would be obvious because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different preferences.

Per claim 22:

Osder does not explicitly teach that the voice prompt pertaining to the first bit pattern in the first database record is spoken by a first speaker; wherein the voice prompt pertaining to the second bit pattern in the second database record is spoken by a second speaker; wherein said speaking the first complete message comprises speaking by the first speaker the first complete message ... wherein said speaking the second complete message comprises speaking by the second speaker the second complete message consisting of the digital-to-analog converted second bit pattern. However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include different voice prompts spoken by different speakers as callers may have different preferences and purposes. The modification would be obvious

Art Unit: 2193

because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different purposes.

Per claim 23:

Osder does not explicitly teach that the voice prompt pertaining to the first bit pattern in the first database record is spoken by a male speaker; wherein the voice prompt pertaining to the second bit pattern in the second database record is spoken by a female speaker; wherein said speaking the first complete message comprises speaking by the male speaker the first complete message ... wherein said speaking the second complete message comprises speaking by the female speaker the second complete message consisting of the digital-to-analog converted second bit pattern. However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include different voice prompts spoken by male and female speakers as callers may have different preferences and purposes. The modification would be obvious because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different preferences.

Per claim 24:

Osder does not explicitly teach the voice prompt pertaining to the first bit pattern in the first database record has a first level of formality; wherein the voice prompt pertaining to the second bit pattern in the second database record has a second level of formality that differs from the first level of formality; wherein said speaking the first complete message ...second complete message consisting of the digital-to-analog converted second bit

Art Unit: 2193

pattern having the second level of formality. However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include different level of formality of voice prompts as callers may have different preferences and purposes. The modification would be obvious because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different preferences.

Per claim 25:

Osder does not explicitly teach that the voice prompt pertaining...spoken by a speaker in a first wording and conveys a meaning...second wording that differs from the first wording and conveys said meaning...in the first wording that conveys said meaning...second bit pattern in the second wording that conveys said meaning.

However, it would have been obvious for one having ordinary skill in the art of computer software development and configuration to include various voice prompts such as including a dialect as callers may have different preferences and purposes. The modification would be obvious because one having ordinary skill in the art would be motivated to provide callers various voice prompt options for different preferences.

### ***Response to Arguments***

8. Applicant's arguments filed on 7/28/2008 have been fully considered but they are not persuasive.

Art Unit: 2193

1) The applicant continues to argue that: Osder does not teach receiving commands from a telephone caller and voice messages received from the telephone connection are commands. Osder teaches the software directing a command to the telephone caller and not vice versa (remark 13).

In response, Osder also discloses a voice interactive system where prompts are played based on communication between a caller and the system through commands. When a caller requests to play a voice message or to access the system, a prompt such as “you have five new messages” or a personal greeting/user name is played (i.e. col. 5 lines 54-56; col. 12 lines 59-61). Without a caller command that is received by an interactive voice response system that plays a voice prompt as in the instant invention and Osder, such a system would not work as an IVR system. To play the prompts in Osder, whether they are for greetings, voice messages, a caller command is needed to select the appropriate prompts in Osder’s database.

2) Osder does not teach responsive to said received commands, determining that the voice prompt is needed. Osder teaches that the PEP command is responsive to a determination that a voice prompt is needed which is the exact opposite of what claim 9 requires (remark 14).

In response, it is unclear what the exact opposite in Osder is. The examiner investigated the whole instant specification and it recites, “when a voice prompt is needed, the application program provides a metalanguage variable that identifies the function of the voice prompt” in pages 6-7. In Osder, when a “Network Application 10 requires that a prompt to be played (i.e. col. 7 lines 41-42),” in response to a caller command to start the voice interactive system or check the voice message etc, the SPIN

Art Unit: 2193

application table that assigns the values of the Ids to point to the prompt element sets such as the tables 2-5 containing the pre-recorded prompts in SPINDB as seen in Fig 3 is accessed. As has been pointed out in the examiner's answer mailed on 5/16/2006, the SPIN Id values (UV10AE, UV10SP etc in table 1) are the entry points to the pre-recorded prompt elements (Osder, col. 28 lines 30-40) "for selectively playing the prompts either in American English, Spanish ...etc (col. 8 lines 32-36)" when the voice prompts are needed to be played.

3) The Applicant continues to argue that: as indicated in the decision of the Board of Appeals and Interferences, Osder's voice prompt that is spoken at runtime is assembled by inserting dynamic data into a template having static elements and missing portions (remark, 16). Osder does not teach omission of the preceding assembling step of assembling the runtime voice prompt by inserting the dynamic data into the template having the static elements and the missing data. Therefore, by being required to perform said assembling step which is not a step in the claimed first process, Osder does not anticipate claim 9 (remark, 16)...Osder does not teach that the bits of the bit pattern "you have five new messages" is stored contiguously in a first database record prior to the digital-to-analog conversion as required by claim 9 (remark, 17).

In response, as previously addressed, the applicant appears to use the term "contiguously" in place of the term "static" which had previously used. Some reasonable interpretation of the term contiguously can be applied. First, although the applicant uses the exemplary prompt "you have five new messages" found in Osder for his argument, it is noted that the prompt is only one example given in Osder's voice response system.

Art Unit: 2193

Even in this exemplary prompt, "you," for example, can be considered as a first bit pattern existing in the first database record where each bits of "you" is stored contiguously prior to the conversion. The prompt, "you" played first (digital-to-analog conversion) is stored as contiguous bits. Second, in response to the applicant's argument that the "static and dynamic elements are stored in separate tables, namely Tables 3 and 5, respectively, and therefore do not collectively constitute a bit pattern that is stored in the first database record (remark, 16)," it is noted that Osder states that every static and dynamic element of a SPIN application is recorded in the cache element table 80 (col. 10, lines 6-9; see, fig 5A) to play the whole prompt such as "you have five new messages." Accordingly, the message is considered to be played contiguously. Third, Osder states user's recorded name or personal greeting (i.e. col. 12 lines 59-65) which are contiguously stored. Therefore, applicant's argument is not persuasive.

4) In response to applicant's argument regarding claim 18 (remark 18-21), see the response to the corresponding claim 9 above.

5)Applicants continues to argue that Osder does not teach that the IVR system administrator does not use special IVR programming skill to replace the first value with the second value. And the Examiner has not provided evidence to support the statement that no special IVR programming skill is required to use the SPIN screen (remark, 21-22).

In response, first of all, Osder discloses the SPIN Administration Facility 40 (i.e. col. 16 lines 43-45). The person who uses the facility is a system administrator. Second, an administrator is a user who can manage an operation of a system or a specific project. Certainly a user can be a system administrator of his/her own system or program. Both

Art Unit: 2193

present invention and Osder deal with an interactive voice response system and provide a method to change the voice prompts without modifying the application program that plays prompts by holding the voice prompts outside the application program. Osder discloses a new prompt management system providing multiple spoken languages support without altering the functional code of the Network Application containing call flow and isolating the customization of the spoken prompts from the call flow and programmatic logic of the Network Application (Osder, col. 27 lines 27-41) by using SPIN that is used “on behalf of a Network Application to create or modify the prompts and the elements of the prompts to be played by the Network Application in a predetermined spoken language (Osder, col. 3 lines 48-51).” The SPIN application ID is the Network Application’s sole awareness of the languages that it supports and of the pre-recorded voice elements with which it speaks these languages,” Osder, col. 28 lines 30-40). According to the present invention, the value in the assignment table serves as an entry point specified by the value into the database to access pre-recorded voice prompts (the present specification page 3 paragraph 3; page 6 paragraph 1; claim 1). Therefore, as in the instant invention, it is considered that Osder’s user/administrator also does not need to use “special IVR programming skill (remark, 21),” to use or modify SPIN screen as the call flow and programmatic logic of the Network Application that require “special IVR programming (remark, 21)” as stated by applicant, are not altered.

6) Per claims 14, 15, 17, and 22-25:

Applicant continues to argue that Osder does not disclose music (claim 14), audio tone (claim 15), beeps (claim 17), different speakers (claim 22), male/female speakers



Art Unit: 2193

(claim 23), formality (claim 24), wording/dialect (claim 25) in a voice prompt (remark, 23-35).

In response, the basis of the 101 rejection due to examiner's attempt to incorporate the opinion made by the Board regarding the claims is withdrawn, as the examiner acknowledges that a reasonable argument can be made that a statutory subject matter in the amended claims 14, 15, 17, and 22-25 is instead implied after careful investigation of the claims. However, as indicated by the Board on 2/21/2007, the various characteristics of voice prompts are not patentably distinct. The instant specification states that vocal, dialect, or linguistic characteristics of voice prompts are to "improve customer relations in national or international scope (specification, page 2)." Any sound can be used as a voice prompt as a user wishes because a voice prompt is ultimately a sound and processed in bits. Osder's prompt management system provides a capability to create and modify the prompts and the elements of the prompts to be played (col. 4 lines 1-5; "speaks a different language or dialect," "prompts spoken by a man or by a woman," col. 28 lines 30-61). Therefore, as Osder's system allows to have different characteristics of voice prompts as in the instant invention, the modification of Osder to include different voice prompts such as music, beeps etc recited in the above claims is obvious for different personal preferences and purposes. Accordingly, applicant's argument that "there is a lack of enablement (i.e. remark, page 26)" in Osder when the voice prompt comprises music, beeps, a female speaker, dialect etc recited in the above claims is not persuasive. If Osder's system that allows different voice prompts such as a female/male voice, dialect voice prompts as in the instant invention has a lack of enablement, the instant invention that does not explicitly describe how using one

Art Unit: 2193

characteristic of a voice prompt is different from other characteristics also lacks enablement. The examiner requests the applicant to point out where in the specification such enablement of using different characteristic of voice prompts that lacks in Osder is described.

### ***Conclusion***

**9. THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to INSUN KANG whose telephone number is (571)272-3724. The examiner can normally be reached on M-R 7:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis A. Bullock, Jr. can be reached on 571-272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

Art Unit: 2193

applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Insun Kang/  
Examiner, Art Unit 2193